

MOHAMMED SHARAF

Phone: +94 768355101

GitHub: github.com/MrMYMSharaf

Medium: medium.com/@mymsharaff

YouTube: <https://www.youtube.com/@litech>

Email: mymsharaff@gmail.com

LinkedIn: in/mohammed-sharaf-921079256

Website: <https://mymsharaff.netlify.app/>

PROFESSIONAL SUMMARY

Data Science and AI professional with over 5 years of hands-on experience in machine learning, data engineering, and full-stack development. Certified Google Cloud Professional Data Engineer and Machine Learning Engineer. Successfully developed and deployed 15+ AI-powered solutions and data pipelines across cloud and on-premise environments. Skilled in building scalable applications, processing datasets exceeding 100 million records, and driving automation that reduced manual effort by up to 70%.

EDUCATION

MSC in Data Science & Artificial Intelligence
2023-2025

University of Sri Jayewardenepura,

BSc (Hons) Software Engineering
Second Class Upper Division

University of Plymouth, 2019-2023

EXPERIENCE

AI Solution Engineer

Bluechip Organization, December 2023 - Present

- Spearheading AI-driven solutions for enterprise challenges, focusing on machine learning model development and deployment.
- Collaborating on advanced AI systems to optimize operational efficiency and decision-making.

Full-Stack Developer

Envicta Software, June 2022 - December 2023

- Developed an ecommerce platform integrating WooCommerce with Azure and .NET for backend management.
- Streamlined project completion by resolving technical challenges and introducing Jira task management.
- Created custom WordPress plugins and optimized existing solutions, reducing costs and improving reliability.

Intern in Data Engineering

NCINGA PTE LTD, Jan 2021 - June 2022

- Developed expertise in data integration using GCP, Apache Spark, Apache Kafka, and SQL.
- Worked on machine learning projects, enhancing skills in algorithms and model training.

RESEARCH

Feature Selection in High-Dimensional Data Using PSH-HYBRITE Optimization
University of Sri Jayewardenepura, 2025

- Designing and evaluating hybrid metaheuristic algorithms for feature selection in high-dimensional datasets
- Implemented PSH-HYBRITE combining Particle Swarm Optimization and Squid Game Optimizer Algorithm with heuristic pruning

OCR System for Sinhala Text Recognition

Independent Research, 2025–Present

- Developing an OCR pipeline for printed and hand write Sinhala text using deep learning-based computer vision techniques
- Created a synthetic dataset generator using Sinhala fonts to train a custom CNN-CRNN model

PROJECTS

- **Real-time Sentiment Analysis System:** Developed using Apache Kafka and Spark for social media data analysis.
Tools: Apache Kafka, Apache Spark, TensorFlow, AWS
- **E-commerce Recommendation Engine:** Built using collaborative filtering techniques.
Tools: Python, Scikit-learn, Django, MySQL
- **Data Warehouse for Retail Analytics:** Designed data warehouse with ETL processes.
Tools: SQL, ETL, Power BI, PostgreSQL
- **Predictive Maintenance System:** For industrial equipment using sensor data.
Tools: Python, TensorFlow, Scikit-learn, SQL, AWS
- **AI-Powered Garment Design System:** Recommendation system for fashion design.
Tools: Python, TensorFlow, Keras, Tableau, Azure

SKILLS

- **Programming:** Python, R, JavaScript, C++, Java, C#
- **Data Tools:** Spark, Kafka, SQL, Pandas, NumPy
- **Cloud Platforms:** GCP, AWS, Azure
- **Machine Learning:** TensorFlow, PyTorch, Scikit-learn
- **Big Data:** Hadoop, Spark, Hive, Flink
- **Web Development:** React, Angular, Node.js, .NET
- **Databases:** MySQL, PostgreSQL, MongoDB, Redis
- **DevOps:** Docker, Kubernetes, CI/CD

CERTIFICATIONS

- Google Cloud Professional Data Engineer
- Google Cloud Professional Machine Learning Engineer
- Google Cloud Associate Engineer
- IBM Data Science Professional Certificate
- Databricks Lakehouse Fundamentals

REFERENCES

Mr. Mohammed Shafraz
Faculty of Computing Course Coordinator
NSBM Green University
Email: shafraz@nsbm.ac.lk

Mrs. Manoja Weerasekara
Faculty of Computing Department Head
NSBM Green University
Email: manoja@nsbm.ac.lk